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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,394	06/24/2003	Zia Rehman	10019249 -1	3066

22879 7590 10/16/2006

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FORT COLLINS, CO 80527-2400

EXAMINER

KLEMANSKI, HELENE G

ART UNIT	PAPER NUMBER
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1755

DATE MAILED: 10/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/603,394	REHMAN, ZIA	
	Examiner	Art Unit	
	Helene Klemanski	1755	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6-17 and 19-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-17 and 19-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. None of the claims have been amended, claims 5 and 18 have been deleted and no new claims have been added. Hence, claims 1-4, 6-17 and 19-26 are pending in the application.
2. The objection to the claims as set forth in the previous Office Action dated April 28, 2006 has been overcome and is now withdrawn.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. Claims 1-4, 6-17 and 19-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al. (US 5,507,865) in view of Moffatt et al. (US 5,106,416).

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Yoshida et al. teach an aqueous ink jet ink composition comprising 0.1-20% by weight of a water-soluble dye, preferably a black dye, 0.01-20% by weight of an amino acid such as arginine, lysine, histidine, ornithine and derivatives thereof and water. Yoshida et al. further teach that additives such as surfactants may be added for their normal functions. See col. 2, lines 25-55, dyes (A), (B) and (C), col. 3, lines 50-65, col. 4, lines 32-58, examples 1-3, Table 2 and claims 1-6. Yoshida et al. fail to specifically teach the addition of an amphoteric (i.e. zwitterionic) surfactant as claimed by applicants.

Moffatt et al. teach an ink jet ink composition containing a zwitterionic surfactant such as N,N-dimethyl-N-dodecyl amine oxide, N,N-dimethyl-N-tetradecyl amine oxide, N,N-dimethyl-N-hexadecyl amine oxide, N,N-dimethyl-N-octadecyl amine oxide, N,N-dimethyl-N-(Z-9-octadecenyl)-N-amine oxide, N-dodecyl -N,N-dimethyl glycine and sulfobetaines wherein the surfactant improves the color bleed between inks. See col. 2, lines 33-36, col. 3, lines 45-50, col. 4, lines 20-64, col. 5, lines 12-20, col. 8, lines 13-18 and claims 1-3, 6 and 7.

Therefore, it would have been obvious to one having ordinary skill in the art to modify the aqueous ink jet ink of Yoshida et al. by adding the zwitterionic surfactant of Moffatt et al. in order to improve the color bleed of the aqueous ink when printed next to another ink composition.

Response to Arguments

5. Applicant's arguments filed July 31, 2006 have been fully considered but they are not persuasive.

Applicants argue that there is no motivation to combine the Yoshida et al. and Moffat et al. references since the Yoshida reference adds an amino acid to improve water resistance, provide satisfactory image density and prevent bronzing and the Moffat reference adds an amphoteric surfactant to alleviate bleeding between inks. The examiner disagrees since the amphoteric surfactant of Moffatt et al. is added to provide an additional benefit (i.e. preventing bleeding) in addition to the other benefits already shown in the Yoshida reference. Furthermore, applicants state in their specification that the addition of the amphoteric surfactant helps to prevent bleeding between a black ink jet ink of the present invention and a colored ink jet ink (see page 6, lines 10-12).

Applicants further argue that the Yoshida et al. reference only mentions the addition of a surfactant and never specifically identifies that an amphoteric surfactant can be used and unless an amphoteric surfactant is added, increased penetration occurs and negatively impacts the optical density of the ink. The examiner disagrees since the use of the term "surfactant" suggests the addition of any surfactant that is typically added to ink compositions. It is the examiner's position that surfactants are conventionally added to ink compositions since each and every reference cited in this application contains a surfactant or a suggestion to add a surfactant. Therefore, it is the examiner's further position that the addition of the amphoteric surfactant of Moffatt et al. along with its ability to prevent bleeding would have been obvious to one having ordinary skill in the art absent a showing to the contrary. Furthermore, applicants argue that the Moffatt et

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al. reference does not specifically exemplify the use of an amphoteric surfactant and only exemplifies the use of Surfynol 465 (i.e. nonionic surfactant) and therefore, there is no specific suggestion in the Moffatt et al. reference of using an amphoteric surfactant over other types of surfactants. The examiner disagrees since the example in the Moffatt et al. reference (see col. 8, lines 13-18) also includes an amphoteric surfactant (i.e. OOAQ, see col. 4, lines 19-50) in the amounts as claimed by applicants in combination with the nonionic surfactant. Therefore, it is the examiner's position that the Moffatt et al. reference does provide a suggestion of using the amphoteric surfactant as claimed. It should be noted that "A reference can be used for all it realistically teaches and is not limited to the disclosures in its specific examples". See In re Van Marter et al 144 USPQ 421; In re Windmer et al 147 USPQ 518, 523; and In re Chapman et al 148 USPQ 711. The examiner suggests providing evidence that an ink containing an amino acid and an amphoteric surfactant would have unexpected results as compared to an ink containing an amino acid and a surfactant other than amphoteric such as nonionic and/or cationic surfactant. Applicants should note that the examples in the specification only compare an ink containing an amino acid and an amphoteric surfactant to an ink that does not contain an amino acid but does contain an amphoteric surfactant. The examiner will consider any evidence as described above as long as it is submitted in response to this Office Action.

Applicants also argue that the addition of the dyes of Yoshida et al. reference to the ink of the Moffatt et al. reference would destroy the function of the Moffatt et al. reference. The examiner agrees, however, the Moffatt et al. reference is not being

modified it is the Yoshida et al. reference that is being modified by adding the surfactant as disclosed in the Moffatt et al. reference. Therefore, the function of the Moffatt et al. reference is not in question but the function of the Yoshida et al. reference. It is the examiner's position that the function of the Yoshida et al. reference (i.e. satisfactory image density due to improved bleeding) would be intact by the use of the amphoteric surfactant of Moffatt et al. Therefore, this rejection is final.

Conclusion

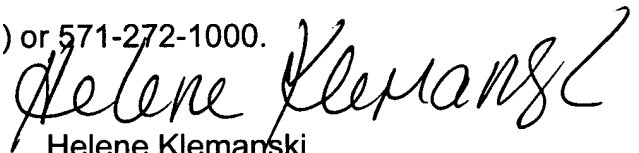
6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Klemanski whose telephone number is (571) 272-1370. The examiner can normally be reached on Monday-Friday 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Helene Klemanski
Primary Examiner
Art Unit 1755



HK
October 12, 2006